

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A circuit arrangement, comprising: having  
a low temperature coolant circuit configured to cool ~~for cooling~~ charge air in a motor vehicle having a supercharger, ~~[[with]]~~  
a single-unit, integrated charge-air and coolant ~~charge-air/coolant~~ radiator, and  
wherein  
a temperature sensor ~~[[is]]~~ provided at a ~~[[the]]~~ coolant outlet of the ~~charge-air/coolant~~ radiator or at a short distance downstream, wherein the temperature sensor is configured to measure a ~~for measuring the~~ coolant outlet temperature.
2. (Previously Presented) The circuit arrangement as claimed in claim 1, wherein the coolant flow rate is controlled as a function of the determined coolant temperature.
3. (Previously Presented) The circuit arrangement as claimed in claim 1, wherein the temperature sensor is a thermostat.
4. (Previously Presented) The circuit arrangement as claimed in claim 1, wherein the temperature sensor is integrated into a plastic part which serves to carry coolant.
5. (Previously Presented) The circuit arrangement as claimed in claim 4, wherein the plastic part is produced by means of plastic injection-molding.
6. (Previously Presented) The circuit arrangement as claimed in claim 1, wherein the low temperature coolant circuit is connected to a main coolant circuit, so that there is an exchange of coolant.
7. (Previously Presented) The circuit arrangement as claimed in claim 6, wherein a control valve is arranged in the low temperature coolant circuit.
8. (Currently Amended) The circuit arrangement as claimed in claim 7, wherein the control valve is arranged upstream of a low temperature coolant radiator or upstream of the ~~charge-~~

~~air/coolant~~ radiator.

9. (Previously Presented) The circuit arrangement as claimed in claim 1, wherein the coolant traveling from the charge-air/coolant radiator is fed upstream of a pump to a main coolant circuit.

10. (Currently Amended) A method for operating a circuit arrangement, comprising: having circulating coolant through a low temperature circuit configured to cool ~~for cooling~~ charge air in a motor vehicle having a supercharger, ~~[[with]]~~ providing a single-unit, integrated charge-air and coolant ~~charge-air/coolant~~ radiator, determining the temperature of coolant at an outlet of the radiator or at a short distance downstream from the outlet, and controlling a coolant flow rate through the radiator ~~wherein the coolant flow rate through the charge-air/coolant radiator is controlled as a function of the coolant temperature determined at the charge-air/coolant radiator.~~

11. (Currently Amended) The method as claimed in claim 10, wherein the coolant flow rate through the ~~charge-air/coolant~~ radiator is controlled taking into consideration a rotational speed and/or load, in particular of a drive engine of the motor vehicle, a traveling speed of the motor vehicle, an outside temperature and/or an ambient pressure.

12. (New) The circuit arrangement as claimed in claim 1, wherein the temperature sensor is integrated with the coolant outlet of the radiator.

13. (New) The circuit arrangement as claimed in claim 1, further comprising a coolant circuit configured to cool coolant for an engine of the motor vehicle.

14. (New) The circuit arrangement as claimed in claim 1, further comprising a low temperature coolant radiator configured to cool coolant supplied to the single-unit, integrated charge-air and coolant radiator.

15. (New) The method as claimed in claim 10, wherein the step of determining the temperature of the coolant at the outlet of the radiator is performed by using a sensor integrated with the coolant outlet of the radiator.

16. (New) The method as claimed in claim 10, further comprising the step of circulating coolant for an engine of the motor vehicle through a second circuit.

17. (New) The method as claimed in claim 10, wherein the step of circulating coolant through the low temperature circuit comprises circulating the coolant through a low temperature coolant radiator configured to cool the coolant supplied to the single-unit, integrated charge-air and coolant radiator.